

Digital Multi-Day Soil Thermometer

5 cm Sensor Error Check

Field Guide

Task

Check that the 5 cm soil sensor is working properly.

What You Need

- ☐ Soil probe thermometer from *Soil Temperature Protocol*
- ☐ *Digital Multi-day Soil Thermometer Calibration and Reset Data Sheet*

In the Field

1. Calibrate a soil probe thermometer following the *Calibrating the Soil Thermometer Lab Guide* of the *Soil Temperature Protocol*.
2. Open the door to the instrument shelter.
3. Select a place about 15 cm from the location of the soil temperature probes.
4. Measure the soil temperature at a depth of 5 cm at this spot following the *Soil Temperature Protocol*.
5. Record this temperature in the '5 cm Soil Sensor Error Check' section of your *Digital Multi-day Soil Thermometer Calibration and Reset Data Sheet*.
6. Turn on the soil temperature display of the multi-day max/min thermometer by pressing the soil sensor ON button (upper left button).
7. Read the temperature reported by the soil sensor of the digital thermometer and record it in the '5 cm Soil Sensor Error Check' section of your *Digital Multi-day Soil Thermometer Calibration and Reset Data Sheet*.
8. Close the cover flap of the digital thermometer and the door of the instrument shelter.
9. Repeat steps 2 to 8 four more times, waiting at least one hour between measurements.
10. Report these data to GLOBE. The GLOBE archive will determine if you need to dig out the soil sensors and recalibrate them following the *Digital Multi-Day Soil Thermometer Calibration Field Guide*.